

## Vocabulary

Commutative Property - the order of the #'s  
does not matter.

i.e.  $a + b = c$       i.e.  $1 + 2 = 3$   
 $b + a = c$        $2 + 1 = 3$

Associative Property - the grouping of  
#'s does not matter.

i.e.  $(a + b) + c = d$       i.e.  $(3 + 4) + 5 = 12$   
 $a + (b + c) = d$        $3 + (4 + 5) = 12$

Distributive Property - when you  
distribute a # or variable from  
outside the parentheses to inside.

i.e.  $a(b + c)$       i.e.  $8(3 + b)$   
 $ab + ac$        $24 + 8b$

Property of One - any # or variable  
multiplied by one equals itself.

i.e.  $a \cdot 1 = a$       i.e.  $100 \cdot 1 = 100$

Zero property of addition - anything plus  
zero will equal itself.

i.e.  $z + 0 = z$       i.e.  $52 + 0 = 52$

integers - whole #'s and their opposites.